CLAIMS

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A method of providing a document with a covert security feature in which the document is provided with

at least one dopant, the dopant being of a material

which can be identified by examination of its response

to visible wavelength photon radiation.

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A method of providing a document with a covert 9 2.

security feature as claimed in/Claim 1, in which the 10

dopant comprises one or more inorganic compounds. ... 11

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A method of providing a document with a covert 13

security feature as claimed in Claim 1 or Claim 27 in 14

which the dopant comprises one of, or a combination of 15

the elements listed in Table 5, in elemental form or as 16

an oxide or salt. 17

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A method of providing a document with a covert 19

Aprending Claim, in security feature as/claimed in AB 20

which the dopant is mixed with a quantity of an element 21

or its salt or its oxide with an atomic number greater 22

than 36. 23

24

A method of providing a document with a covert 25

26 security feat/ure as claimed in Claim 4 in which the

element or its salt or its oxide is Strontium, 27

Lanthanum or Bismuth. 28

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security feature as claimed in any preceding Claim, in which the dopant is mixed with ink and the resulting mixture is applied to the document.

7. A method of providing a document with a covert security feature as claimed in any preceding Claim in

8 which the dopant (is fused) in/a glass before being

9 applied to the document.

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11 8. A method of providing a document with a covert
12 security feature as claimed in Claim 7 in which the
13 glass is made of silicates and/or phosphates and/or
14 borates.

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9. A method of providing a document with a covert security feature as claimed in Claim 7 or Claim 8 in which the or each dopant is micronised into a fine powder.

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21 10. A method of providing a document with a covert
22 security feature as claimed in one of Claim 3 to Claim.

23 9 in which each particle of the micronised fine powder

, 24 has a diameter of 1-4μm.

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- 26 11. A method of providing a document with a covert
- 27 security feature as claimed in any preceding Claim in
- 28 which the dopant is such that, when the document is
- 29 illuminated with broad-band visible light to produce a
- 30 reflectance spectrum with frequency components

- 1 generated by the dopant and by other feflecting
- 2 substances contained in the document, said spectrum
- 3 containing minimal frequency overlap between the
- 4 components of the spectrum generated by the dopant and
- 5 that part of the spectrum generated by other substances
- 6 contained in the document.

8 12. A method of providing a document with a covert

- 9 security feature as claimed in any preceding Claim in
- which the dopant is such that, when the document is
- 11 illuminated with broad-band visible the frequency
- 12 components generated by the dopant are invisible to the
- 13 human eye.

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- 15 13. A method of providing a document with a covert
- 16 security feature as claimed any preceding Claim in
- 17 which the spectrum of the dopant can be shifted to a
- 18 higher or lower wavefength.

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- 20 14. A method of providing a document with a covert
- 21 security feature as claimed in any preceding Glaim in
- 22 which the spectrum of the dopant can be shifted to a
- 23 higher or lower wavelength by alteration of the
- 24 composition of the glass in which it is fused.

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- 26 15. A method/of providing a document with a covert
- 1 27 security feature as claimed in any proceding Claim in
 - 28 which the spectrum of the dopant is alterable by
 - 29 alteration of the reaction temperature and/or pressure
 - 30 at which the glass is made.

16. A document provided with a covert security feature 2 3 by the method ax A dopant for use in providing a document with a ing \$53 covert security feature, comprising one or more combination of the elements listed in Table 5, in elemental form or as an oxide or salt, in finely 423/ ranions; moganic aryonds un-mixed divided form. A method of making a dopant, in which one or a 12 combination of/the elements listed in table 5, in IJ elemental form or as an oxide or salt, is fused in a 4 🗖 13 (O glass and subsequently micronised. 14 U COMPOSETIONS/MEXTURES

COMPOSETIONS/MEXTURES

Transmission modifying 252/584

Transmission modifying 501/various; aloys

Reflecture modifying 420/various; aloys

252/1; Salt implimes 15 ĪŦ Ш hold_B2/ Ō